



## Material - ANSI/AA C87800

### Specification Standards for Die Castings

Group - Non-Ferrous Copper Alloy

Sub Group - ANSI/AA for Die Castings

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Tin	Sn %	0.250 max.	As-Cast	
Lead	Pb %	0.090 max.		
Zinc	Zn %	12.000 - 16.000		
Iron	Fe %	0.150 max.		
Aluminium	Al %	0.150 max.		
Manganese	Mn %	0.150 max.		
Antimony	Sb %	0.050 max.		
Nickel	Ni %	0.200 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.010 max.		
Silicon	Si %	3.800 - 4.200 max.		
Arsenic	As %	0.050 max.		
Magnesium	Mg %	0.010 max.		
Other	Ot%	1.000 max.		
Copper	Cu %	Balance		
			Mechanical Properties	
			Tensile Strength in Mpa	586 min.
			Yield Strength in Mpa	334 min.
			Elongation in %	25 min.
			Reduction of Area in %	-
			Hardness in BHN	85 min.
			Impact in Joule	95 min.

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.